

**WHAT IS CLAIMED IS:**

1. A composition for durable non-permanent shaping or durable retention of a non-permanent shape of least one keratinous fiber comprising:

(a) at least one film forming agent; and

5 (b) at least one saccharide type compound chosen from C<sub>3</sub> to C<sub>5</sub> monosaccharides, optionally substituted with at least one C<sub>1</sub> to C<sub>22</sub> carbon chain, and compounds comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group;

10 wherein said at least one film forming agent and said at least one compound are present in an amount effective to impart a durable non-permanent shape to said at least one keratinous fiber or to durably retain a non-permanent shape of said at least one keratinous fiber.

15 2. A composition according to claim 1, wherein said at least one film forming agent is chosen from film forming polymers and film forming resins.

3. A composition according to claim 2, wherein said film forming polymers are chosen from cationic polymers.

4. A composition according to claim 3, wherein said cationic polymers are chosen from polyquaternium-16, polyquaternium-46 and polyquaternium-44.

20 5. A composition according to claim 2, wherein said film forming polymers are chosen from nonionic polymers.

6. A composition according to claim 5, wherein said nonionic polymers are chosen from:

- (i) polymers derived from (1) corn starch and (2) polyvinylpyrrolidone; and
- (ii) copolymers derived from (1) vinyl acetate and (2) vinylpyrrolidone.

25 7. A composition according to claim 2, wherein said film forming polymers are chosen from anionic polymers.

8. A composition according to claim 7, wherein said anionic polymers are

chosen from:

- (i) polymers derived from (1) vinyl acetate, (2) crotonic acid and (3) vinyl neodecanoate;
- (ii) polymers derived from (1) acrylic acid, (2) acrylates, (3) hydroxyacrylates  
5 and
  - (4) succinic acid; and
- (iii) polymers derived from at least two different monomers each chosen from acrylic acid, methacrylic acid, esters of acrylic acid, and esters of methacrylic acid.

10 9. A composition according to claim 8, wherein said anionic polymers are neutralized.

10. A composition according to any of the preceding claims, wherein said at least one film forming

agent is present in said composition in an amount ranging from 0.01% to 30% by  
15 weight relative to the total weight of the composition.

11. A composition according to claim 1, wherein said C<sub>3</sub> to C<sub>5</sub> monosaccharides are chosen from pentoses, tetroses, trioses, furanoses and derivatives thereof and derivatives of C<sub>3</sub> to C<sub>5</sub> monosaccharides.

12. A composition according to claim 11, wherein said derivatives of C<sub>3</sub> to C<sub>5</sub> monosaccharides are chosen from imine derivatives of C<sub>3</sub> to C<sub>5</sub> monosaccharides, hemiacetal derivatives of C<sub>3</sub> to C<sub>5</sub> monosaccharides, hemiketal derivatives of C<sub>3</sub> to C<sub>5</sub> monosaccharides, and oxidized derivatives of C<sub>3</sub> to C<sub>5</sub> monosaccharides.

13. A composition according to claim 1, wherein said compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from pentosamines, hexosamines and  
25 heptosamines.

14. A composition according to any of the preceding claims, wherein said composition further comprises at least one additional sugar different from said at least one saccharide type compound.

15. A composition according to claim 14, wherein said hexoses are chosen from  
5 allose, altrose, glucose, mannose, gulose, idose, galactose, talose, sorbose, psicose, fructose, and tagatose.

16. A composition according to claim 14 or 15, wherein said at least one additional sugar is present in said composition in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

10 17. A composition according to any of the preceding claims, wherein said composition is in the form of a liquid, oil, paste, stick, dispersion, emulsion, lotion, gel, or cream.

15 18. A composition according to any of the preceding claims, further comprising at least one suitable additive chosen from anionic surfactants, cationic surfactants, nonionic surfactants, amphoteric surfactants, fragrances, penetrating agents, antioxidants, sequestering agents, opacifying agents, solubilizing agents, emollients, colorants, screening agents, preserving agents, proteins, vitamins, silicones, polymers such as thickening polymers, plant oils, mineral oils, and synthetic oils.

20 19. A method for durable non-permanent shaping of at least one keratinous fiber or for durable retention of a non-permanent shape of at least one keratinous fiber comprising:

applying to said at least one keratinous fiber a composition according to any of the preceding claims fiber comprising:

(a) at least one film forming agent; and

25 (b) at least one saccharide type compound chosen from C<sub>3</sub> to C<sub>5</sub> monosaccharides, optionally substituted with at least one C<sub>1</sub> to C<sub>22</sub> carbon chain, and

compounds comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group;

heating said at least one keratinous fiber;

wherein said at least one film forming agent and said at least one compound are present in an amount effective to impart a durable non-permanent shape to said at least one keratinous fiber or to durably retain a non-permanent shape of said at least one keratinous fiber, and

further wherein said composition is applied prior to said heating or during said heating.

10 20. A kit for protecting at least one keratinous fiber from extrinsic damage or for repairing at least one keratinous fiber following extrinsic damage said kit comprising at least one compartment,

wherein said at least one compartment comprises a composition comprising at least one saccharide type compound chosen from C<sub>3</sub> to C<sub>5</sub> monosaccharides 15 substituted with at least one C<sub>1</sub> to C<sub>22</sub> carbon chain, and

wherein said at least one compound is present in an amount effective to impart a durable non-permanent shape to said at least one keratinous fiber or to durably retain a non-permanent shape of said at least one keratinous fiber.